

### NITED STATES ENVIRONMENTAL PRECTION AGENCY...

WASHINGTON, D.C. 20460

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DATA MATRIX

	DATAMATA		
Date: November 14, 2003		EPA Reg No./ File Symbol 40810-24	Page 1 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA					
OPPTS 830.1550	Product Identity and Composition	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1600	Description of Starting Materials	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1620	Description of the Manufacturing Process	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1670	Discussion of the Formation of Impurities	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1700	Preliminary Analysis	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1750	Certified Limits	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1800	Enforcement analytical method	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.6303	Physical state	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.7000	pH	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.6320	Corrosion characteristics	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.6302	Color	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6304	Odor	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6315	Flammability	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.6316	Explodability	waiver	Ciba Specialty Chemicals	Own	4/22/03 report
OPPTS 830.6319	Miscibility	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.7100	Viscosity	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.7300	Density	45725102	Ciba Specialty Chemicals	Own	
OPPTS 870.1100	Acute oral toxicity - rat	45618604	Ciba Specialty Chemicals	Own	
OPPTS 870.1200	Acute dermal toxicity + rat	45618605	Ciba Specialty Chemicals	Own	
OPPTS 870.1300	Acute inhalation toxicity	45618606	Ciba Specialty Chemicals	Own	
OPPTS 870.2400	Primary eye irritation – rabbit	45618607	Ciba Specialty Chemicals	Own	

Signature	Name and Title	Date
M. Olmaker	Naeem Mady	11/14/03
Macent Mady	Head, Regulatory Affairs	
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NITED STATES ENVIRONMENTAL PRECTION AGENCY, 401 M Street, S.W.

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#### **DATA MATRIX**

Date: November 14, 2003

EPA Reg No./ File Symbol
40810-24

Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation

Product: Irgaguard® B7000

540 White Plains Road

PO Box 2005

Tarrytown, NY 10591-9005

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.2500	Primary dermal irritation	45618608	Ciba Specialty Chemicals	Own	
OPPTS 870.2600	Dermal sensitization	45618609	Ciba Specialty Chemicals	Own	
PRQDUCT SPECIFIC DATA					
FOR SOURCE PRODUCT					
OPPTS 830.1550	Product Identity and Composition	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1600	Description of Starting Materials	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1620	Description of the Manufacturing Process	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1670	Discussion of the Formation of Impurities	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1700	Preliminary Analysis	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1750	Certified Limits	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1800	Enforcement analytical method	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.6303	Physical state	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.7000	pH	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.6320	Corrosion characteristics	Waiver granted	Giba Specialty Chemicals	Own	
OPPTS 830.6302	Color	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.6304	Odor	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.6315	Flammability	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.6316	Explodability	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.6319	Miscibility • • • • • • • • • • • • • • • • • • •	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.7100	Viscosity	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830/1/300	Density	45724702	Ciba Specialty Chemicals	Own	
OPPTS 870.1100	Acute oral toxicity – rat	45618604	Ciba Specialty Chemicals	Own	

Signature
Name and Title
Naeem Mady
Head, Regulatory Affairs

Date
11/14/03



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#### DATA MATRIX

Date: November 14, 2003 EPA Reg No./ File Symbol Page 3 of 9 40810-24 Product: Irgaguard® B7000

Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation

540 White Plains Road PO Box 2005

Tarrytown, NY 10591-9005

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.1200	Acute dermal toxicity - rat	45618605	Ciba Specialty Chemicals	Own	
OPPTS 870.1300	Acute inhalation toxicity	45618606	Ciba Specialty Chemicals	Own	
OPPTS 870.2400	Primary eye irritation – rabbit	45618607	Ciba Specialty Chemicals	Own	
OPPTS 870.2500	Primary dermal irritation	45618608	Ciba Specialty Chemicals	Own	
OPPTS 870.2600	Dermal sensitization	45618609	Ciba Specialty Chemicals	Own	
GENERIC DATA - SILVER					
830.6302	Color	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.6303	Physical state	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.6304	Odor	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.6313	Stability	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7000	PH	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7200	Melting point	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7220	Boiling point	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7300	Density/relative density/bulk density	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03

Name and Title	Date
Naeem Mady Head, Regulatory Affairs	11/14/03
	Naeem Mady



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Date: November 14, 2003 EPA Reg No./ File Symbol Page 4 of 9 40810-24 Product: Irgaguard® B7000

Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation

540 White Plains Road PO Box 2005

Tarrytown, NY 10591-9005

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7370	Dissociation constant	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7840-7860	Solubility	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7950	Vapor pressure	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
870.1100	Acute oral toxicity – rat	42032702, 42664501	Kanebo	Per	Footnote 10
870.1200	Acute dermal toxicity – rat	42032702, 42664501	Kanebo	Per	Footnote 10
870.1300	Acute inhalation toxicity	42032702, 42664501	Kanebo	Per	Footnote 10
870.2400	Primary eye irritation – rabbit	42032702, 42664501	Kanebo	Per	Footnote 10
870.2500	Primary dermal irritation	42032702, 42664501	Kanebo	Per	Footnote 10
870.2600	Dermal sensitization	42032702, 42664501	Kanebo	Per	Footnote 10
870.3100	90-Day oral toxicity	7	Ciba Specialty Chemicals	Own	
870.3150	Subchronic nonrodent oral toxicity-90-day	Time Bunital	Ciba Specialty Chemicals	Own	
870.3250	90 day oral toxicity - rodent  Developmental toxicity - rodent	RED Ref		Pub	Footnote 1
870.3700	Developmental toxicity - rodent	RED Ref		Pub	Footnote 2
870.3800	Reproduction and fertility effects	Time Synital	Ciba Specialty Chemicals	Own	
870.5265	In vitro mutagenicity	RED Ref		Pub	Footnote 3
Macci of Maky			Name and Title Naeem Mady Head, Regulatory Affairs		Date 11/14/03



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#### DATA MATRIX

Date: November 14, 2003 EPA Reg No./ File Symbol Page 5 of 9 40810-24 Product: Irgaguard® B7000

Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation

540 White Plains Road PO Box 2005

Tarrytown, NY 10591-9005

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5300	Mutagenicity – mammalian cells in culture	RED Ref		Pub	Footnote 3
870.5380	In vivo cytogenetics	RED Ref		Pub	Footnote 3
850.1010	Daphnia acute toxicity	42650501	Mason Chemical	Pay	
850.1075	Acute toxicity – fish	42650501	Mason Chemical	pay	
850.2100	Avian Acute toxicity	43312901	Mason Chemical	Pay	
835.2120	Hydrolysis	RED Ref		Pub	Footnote 4
GENERIC DATA – ZINC Per EPA letter of 4/17/03, reference zinc oxide					
830.6302	Color	41777903	Monsanto	Pay	Footnote 11
830.6303	Physical state	41777903	Monsanto	Pay	Footnote 11
830.6304	Odor	41777903	Monsanto	Pay	Footnote 11
830.6313	Stability	41777903	Monsanto	Pay	Footnote 11
830.7000	pH	41777903	Monsanto	Pay	Footnote 11
830.7200	Melting point	41777903	Monsanto	Pay	Footnote 11
830.7220	Boiling point	41777903	Monsanto	Pay	Footnote 11
830.7300	Density/relative density/bulk density.	41777903	Monsanto	Pay	Footnote 11
830.7370	Dissociation constant	41777903	Monsanto	Pay	Footnote 11
830.7840-7860	Solubility	41777903	Monsanto	Pay	Footnote 11
830.7950	Vapor pressure.	41777903	Monsanto	Pay	Footnote 11
870.1100	Acute oral toxicity - rat	147624	Monsanto	Old	Footnote 11
870.1200	Acute dermal toxicity – rat	147625	Monsanto	Old	Footnote 11

Signature Name and Title Date Naeem Mady 11/14/03 Head, Regulatory Affairs



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> 540 White Plains Road PO Box 2005

Tarrytown, NY 10591-9005

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute inhalation toxicity	43258601	Monsanto	Pay	Footnote 11
870.2400	Primary eye irritation – rabbit	147627	Monsanto	Old	Footnote 11
870.2500	Primary dermal irritation	147626	Monsanto	Old	Footnote 11
870.2600	Dermal sensitization	43258602	Monsanto	pay	Footnote 11
870.3250	90 day dermal toxicity – rodent	RED Ref		Pub	Footnote 5, 9
870.3700	Developmental toxicity – rodent	RED Ref		Pub	Footnote 7, 9
870.5265	In vitro mutagenicity	RED Ref		Pub	Footnote 7, 9
870.5300	Mutagenicity – mammalian cells in culture	RED Ref		Pub	Footnote 7, 9
870.5380	In vivo cytogenetics	RED Ref		pub	Footnote 7, 9
850.1010	Daphnia acute toxicity	155227	Monsanto	old	
850.1075	Acute toxicity fish	155224 155228	Monsanto	old	
850.2100	Avian Acute toxicity	155226	Monsanto	old	
835.2120	Hydrolysis	RED Ref		pub	Footnote 8, 9

Footnote 1: Published literature references cited in Silver RED (US EPA 1993):

- Wagner, P.A., Hoekstro, W. and Ganther, H.E. 1975. Allevation of silver toxicity by selenite in the rat in relation to tissue glutathione peroxidase. Proc. Soc. Exp. Biol. Med. 148:1106-1420
- Van Vleet, J.F. 1976. Induction of lesions of Solenium-witamin E deficiency in pigs fed silver. Am. J. Vet. Res. 37:1425-1420
- Day, W.A., Hunt, J.S. and McGiven, A.R. 1976. Silver deposition in mouse glomeruli. Pathology 8:201-204
- Walker, F. 1971. Experimental Argyria: A model for hasement membrane studies. Brit. J. Exp. Path. 52:589-593
- Olcott, C.T. 1947. Experimental argyrosis. III. Pigmentation of the elves of rats following ingestion of silver during long periods of time. Am. J. Path. 23:783-789.
- Olcott, C.T. 1948. Experimental argyrosis IV. Merphological changes in the experimental animal. Am. J. Path. 24: 813-833.
- Olcott, C.T. 1950. Experimental argyrosis. V. Hypertrophy of the left ventricle of the heart in rats ingesting silver salts. Arch. Path. 49: 138-149.

Signature	Name and Title	Date
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#### NITED STATES ENVIRONMENTAL PRECTION AGENCY 401 M Street, S.W.

WASHINGTON, D.C. 20460

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- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Goyer, R.A. 1991. Toxic effects of metals. Casserett and Doull's Toxicology. Eds. M. Amdur, J. Doull, and C. Klaassen. Pergamon Press. 623-280.
- Gaul, L.E., and Staud, A.H. 1935. Clinical Spectroscopy. Seventy cases of generalized argyrosis following organic and colloidal silver medication, including a biospectrometric analysis of ten cases. J. Am. Med. Assoc. 104:1387-1390
- Footnote 2: Published literature references cited in Silver RED (US EPA 1993):
  - Rungby, J, Slomianka, L., Dansker, G., Anderson, A.H., and West, M.J. 1987. A quantitative evaluation of the neurotoxic effect of silver on the volumes of the components of the developing rat hippocampus. Toxicol. 43:261-268
  - U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24

Footnote 3: Published literature references cited in Silver RED (US EPA 1993):

- Demerec, M., Bertani, G., and Fling, J. 1951. A survey of chemicals for mutagenic action on E. Coli. Am. Nat. 85:119-136.
- Nishioka, H. 1975. Mutagenic activity of metal compounds in bacteria. Mutat. Res 31: 185-189.
- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Rossman, T.G., and Molina, M. 1986. The genetic toxicology of metal compounds: II. Enhancement of ultraviolet light-induced mutagenesis in Escherichia coli WP2. Environ. Mutagen 8:263-271.

Footnote 4: Published literature references cited in Silver RED (US EPA 1993):

- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Buffle, J. Complexation Reactions in aquatic chemistry: An analytical approach. 1990. Ellis Horwood, NY
- Cotton, F.A., and Wilkenson G. Advanced Inorganic Chemistry. Fifth Edition 1988. John Wiley and Sons, NY
- Greenwood, N.N. and Earnshaw, A. Chemistry of the Blements. 1984. Pergamon Press Ltd., Oxford, UK
- Irgolic, K.J., and Martell, A.E. Environmental Inorganic Chemistry. 1985. VCH Publishers, Inc.
- Morel, F.M.M. Principles of aquatic chemistry. 1983. John Wiley and Sons, NY.
- Muller, A. and Krebs, B. Studies in inorganic chemistry, Vol. 5; sulfur: its significance fo chemistry. For the Geo- Bio- and Cosmosphere and Technology. 1984. Elsevier Publishers, Amsterdam.
- Murr, L.E. Intervacial phenomena in metals and alloys. 1975. Add son Wesley Publishing Company, Reading MA
- Pourbaix, M. Atlas of electrochemical equilibria in aqueous solutions, 1974. Translated by J.A. Franklin, National Association of Corrosion Engineers, Houston, TX

Signature	Name and Title	Date
Mr. Olmokin	Naeem Mady	11/14/03
Macen of Mady	Head, Regulatory Affairs	
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Ingradient: cilver (PC 72501) and zinc (PC 1200	115)		

Ingredient: silver (PC 72501) and zinc (PC 129015)

- Reese, R.J. "Silver", Mminerals Facts and Problems. U.S. Department of the Interior, Bureau of Mines; Bulletin 675, 1985 Edition, U.S. Printing Office, Washington DC
- Shumilova, N.A. and Zhutaeva, G.V. "Silver" in Encyclopedia of Electrochemistry of the Elements. A.J. Bard, Ed. Vol III. 1978. Marcel Dekker, Inc. NY.
- "Silver Compounds" in Kirk-Othmer Encyclopedia of Chemical Technology, 3rd Ed. 1983. John Wiley and Sons, NY
- Stumm, W. Chemistry of the solid-water interface: processes at the mineral-water and particle-water interface in natural systems, 1992. John Wiley and Sons, NY
- Thompson, N.R. "Silver" Comprehensive Inorganic Chemistry. J.C. Bailar, Ed., 1973, Pergamon Press, UK
- Zhutaeva, G.V., and Shumilova, N.A. "Silver", in Standard Potentials in Aqueous Solution, A.J. Bard, R. Parsons, and J. Jordan Ed. Prepared under the auspices of IUPAC, Physical and Analytical Chemistry Divisions, Commissions on Electrochemistry and Electroanalytical Chemistry. 1985. Marcel Dekker, NY.
- Footnote 5: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21
- Footnote 6: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
  - FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21
- Footnote 7: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - Sax, N. and Lweis, R. 1989. Dangerous Properties of Industrial Materials. 7th Ed. Van Nostrand Reinhold, NY
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
- Footnote 8: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - RED pages 6, 11
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
- Footnote 9: Published literature references:
  - U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1994. Toxicology Profile for Zinc.
  - WHO. 2001. Environmental Health Criteria Zinc. EHC 221.
  - FNB. 2002. Dietary reference intakes for Vitamin A, Vitamin K. Arsenic, Boron, Chromium, Copper, Iodine, Iron, managnese, Molybdenum, Nickel, Silicon, Vanadiu, and Zinc. National Academies of Science Food and Nutrition Board. National Academies Press.
- Footnote 10: Per Agency agreement on 4/22/03, TGAI requirements are fulfilled by Bactekiller A, 3.5% silver in zeolite, EPA Reg. No. 59824-3.

Signature	Name and Title	Date
Maco A makes	Naeem Mady	11/14/03
Nace of mady	Head, Regulatory Affairs	



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Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Ingredient: silver (PC 72501) and zinc (PC 129015)

Footnote 11: Cited data are from EPA Reg. No. 524-354 (registration transferred to 71645-3), a 99.4% zinc oxide product and are cited in the RED or fulfilled RED DCI requirements.

Signature

Name and Title Naeem Mady Head, Regulatory Affairs Date 11/14/03



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Guideline Reference Number	Gideline Study Name	MRID Number	Submitter	Status	Note
				0	
			Ciba Specialty Chemicals	Own	
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#### DATA MATRIX Date: November 14, 2003 EPA Reg No./ File Symbol Page 2 of 9 40810-24 Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation Product: Irgaguard® B7000 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015)

uideline Reference Number	Gideline Study Name	MRID Number	Submitter	Status	Note
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	-
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Ingredient: silver (PC 72501) and zinc (PC 129015)

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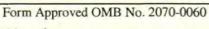
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Date: November 14, 2003		EPA Reg No./ File Symbol 40810-24	Page 3 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Guideline Reference Number	Gideline Study Name	MRID Number	Submitter	Status	Note
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	
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			Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
			Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
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#### DATA MATRIX

Date: November 14, 2003 EPA Reg No./ File Symbol Page 4 of 9 40810-24 Applicant's/Registrant's Name and Address: Product: Irgaguard® B7000

Ciba Specialty Chemicals Corporation 540 White Plains Road

PO Box 2005

Tarrytown, NY 10591-9005

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Gideline Study Name	MRID Number	Submitter	Status	Note
			Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
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			Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
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Date: November 14, 2003		EPA Reg No./ File Symbol 40810-24	Page 5 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Guideline Reference Number	Gideline Study Name	MRID Number	Submitter	Status	Note
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# Date: November 14, 2003 EPA Reg No./ File Symbol 40810-24 Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Gideline Study Name	MRID Number	Submitter	Status	Note
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Footnote 1: Published literature references cited in Silver RED (US EPA 1993):

- Wagner, P.A., Hoekstro, W. and Ganther, H.E. 1975. Alleviation of silver toxicity by selenite in the rat in relation to tissue glutathione peroxidase. Proc. Soc. Exp. Biol. Med. 148: 1305-1420
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- Olcott C.T. 1947. Experimental argyrosis. III. Pigmentation of the eyes of rats following ingestion of silver during long periods of time. Am. J. Path. 23:783-789.
- Olcott, C.T. 1948. Experimental argyrosis. IV. Morphological changes in the experimental animal. Am. J. Path. 24: 813-833.
- Olcott, C.T. 1950. Experimental argyrosis. V. Hypertrophy of the left ventricle of the heart in rats ingesting silver salts. Arch. Path. 49: 138-149.

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#### **DATA MATRIX**

Date: November 14, 2003		EPA Reg No./ File Symbol 40810-24	Page 7 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Ingredient: silver (PC 72501) and zinc (PC 129015)

- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Goyer, R.A. 1991. Toxic effects of metals. Casserett and Doull's Toxicology. Eds. M. Amdur, J. Doull, and C. Klaassen. Pergamon Press. 623-280.
- Gaul, L.E., and Staud, A.H. 1935. Clinical Spectroscopy. Seventy cases of generalized argyrosis following organic and colloidal silver medication, including a biospectrometric analysis of ten cases. J. Am. Med. Assoc. 104:1387-1390
- Footnote 2: Published literature references cited in Silver RED (US EPA 1993):
  - Rungby, J, Slomianka, L., Dansker, G., Anderson, A.H., and West, M.J. 1987. A quantitative evaluation of the neurotoxic effect of silver on the volumes of the components of the developing rat hippocampus. Toxicol. 43:261-268
  - U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Footnote 3: Published literature references cited in Silver RED (US EPA 1993):
  - Demerec, M., Bertani, G., and Fling, J. 1951. A survey of chemicals for mutagenic action on E. Coli. Am. Nat. 85:119-136.
  - Nishioka, H. 1975. Mutagenic activity of metal compounds in bacteria. Mutat. Res 31: 185-189.
  - U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
  - Rossman, T.G., and Molina, M. 1986. The genetic toxicology of metal compounds: II. Enhancement of ultraviolet light-induced mutagenesis in Escherichia coli WP2. Environ. Mutagen 8:263-271.
- Footnote 4: Published literature references cited in Silver RED (US EPA 1993):
  - U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
  - Buffle, J. Complexation Reactions in aquatic chemistry: An analytical approach. 1990. Ellis Horwood, NY
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  - Morel, F.M.M. Principles of aquatic chemistry. 1983. John Wiley and Sons, NY.
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  - Murr, L.E. Intervacial phenomena in metals and alloys. 1975. Addison Wesley Publishing Company, Reading MA
  - Pourbaix, M. Atlas of electrochemical equilibria in aqueous solutions, 1974. Translated by J.A. Franklin, National Association of Corrosion Engineers, Houston, TX

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Date: November 14, 2003		EPA Reg No./ File Symbol 40810-24	Page 8 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Ingredient: silver (PC 72501) and zinc (PC 129015)

- Reese, R.J. "Silver", Mminerals Facts and Problems. U.S. Department of the Interior, Bureau of Mines; Bulletin 675, 1985 Edition, U.S. Printing Office, Washington
- Shumilova, N.A. and Zhutaeva, G.V. "Silver" in Encyclopedia of Electrochemistry of the Elements. A.J. Bard, Ed. Vol III. 1978. Marcel Dekker, Inc. NY.
- "Silver Compounds" in Kirk-Othmer Encyclopedia of Chemical Technology, 3<sup>rd</sup> Ed. 1983. John Wiley and Sons, NY
- Stumm, W. Chemistry of the solid-water interface: processes at the mineral-water and particle-water interface in natural systems, 1992. John Wiley and Sons, NY
- Thompson, N.R. "Silver" Comprehensive Inorganic Chemistry. J.C. Bailar, Ed., 1973, Pergamon Press, UK
- Zhutaeva, G.V., and Shumilova, N.A. "Silver", in Standard Potentials in Aqueous Solution, A.J. Bard, R. Parsons, and J. Jordan Ed. Prepared under the auspices of IUPAC, Physical and Analytical Chemistry Divisions, Commissions on Electrochemistry and Electroanalytical Chemistry. 1985. Marcel Dekker, NY.
- Footnote 5: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21
- Footnote 6: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
  - FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21
- Footnote 7: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - Sax, N. and Lweis, R. 1989. Dangerous Properties of Industrial Materials. 7th Ed. Van Nostrand Reinhold, NY
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
- Footnote 8: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - RED pages 6, 11: :
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
- Footnote 9: Published literature references
  - U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1994. Toxicology Profile for Zinc.
  - WHO, 2001. Environmental Health Criteria Zinc. EHC 221.
  - FNB. 2002. Dietary reference intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, managnese, Molybdenum, Nickel, Silicon, Vanadiu, and Zinc. National Academies of Science, Food and Nutrition Board. National Academies Press.

Footnote 10: Per Agency agreement on 4/22/03, TGAI requirements are fulfilled by Bactekiller A, 3.5% silver in zeolite, EPA Reg. No. 59824-3.

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Date: November 14, 2003		EPA Reg No./ File Symbol 40810-24	Page 9 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Footnote 11: Cited data are from EPA Reg. No. 524-354 (registration transferred to 71645-3), a 99.4% zinc oxide product and are cited in the RED or fulfilled RED DCI requirements.



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Name and Title Naeem Mady Head, Regulatory Affairs Date 11/14/03



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA					
OPPTS 830.1550	Product Identity and Composition	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1600	Description of Starting Materials	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1620	Description of the Manufacturing Process	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1670	Discussion of the Formation of Impurities	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1700	Preliminary Analysis	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1750	Certified Limits	45725101	Ciba Specialty Chemicals	Own ·	
OPPTS 830.1800	Enforcement analytical method	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.6303	Physical state	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.7000	pH	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.6320	Corrosion characteristics	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.6302	Color	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6304	Odor	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6315	Flammability	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.6316	Explodability	waiver	Ciba Specialty Chemicals	Own	4/22/03 report
OPPTS 830.6319	Miscibility	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.7100	Viscosity	waiver	Ciba Specialty Chemicals	Own	
OPPTS 830.7300	Density	45725102	Ciba Specialty Chemicals	Own	
OPPTS 870.1100	Acute oral toxicity – rat	45618604	Ciba Specialty Chemicals	Own	
OPPTS 870.1200	Acute dermal toxicity—rat	45618605	Ciba Specialty Chemicals	Own	
OPPTS 870.1300	Acute inhalation toxicity	\$ \$5618606	Ciba Specialty Chemicals	Own	
OPPTS 870.2400	Primary eye irritation rabbit	<b>4</b> 5618607	Ciba Specialty Chemicals	Own	

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DATA MATRIX				
Date: April 22, 2003		EPA Reg No./ File Symbol 40810-EU	Page 2 of 9	
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000		
Ingredient: silver (PC 72501) and zinc (PC 1290	015)		•	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.2500	Primary dermal irritation	45618608	Ciba Specialty Chemicals	Own	
OPPTS 870.2600	Dermal sensitization	45618609	Ciba Specialty Chemicals	Own	
PRODUCT SPECIFIC DATA					
FOR SOURCE PRODUCT	·				
OPPTS 830.1550	Product Identity and Composition	45724701	Ciba Specialty Chemicals	Own	· .
OPPTS 830.1600	Description of Starting Materials	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1620	Description of the Manufacturing Process	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1670	Discussion of the Formation of Impurities	45724701	Ciba Specialty Chemicals	Own	,
OPPTS 830.1700	Preliminary Analysis	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1750	Certified Limits	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1800	Enforcement analytical method	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.6303	Physical state	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.7000	рН	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.6320	Corrosion characteristics	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.6302	Color	45724702	Ciba Specialty Chemicals	Own	·
OPPTS 830.6304	Odor	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.6315	Flammability	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.6316	Explodability	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.6319	Miscibility	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.7100	Viscosity	Waiver granted	Ciba Specialty Chemicals	Own	
OPPTS 830.7300	Density	45724702	Ciba Specialty Chemicals	Own	
OPPTS 870.1100	Acute oral toxicity – rat	45618604	Ciba Specialty Chemicals	Own	

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# Date: April 22, 2003 EPA Reg No./ File Symbol 40810-EU Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.1200	Acute dermal toxicity – rat	45618605	Ciba Specialty Chemicals	Own	
OPPTS 870.1300	Acute inhalation toxicity	45618606	Ciba Specialty Chemicals	Own	
OPPTS 870.2400	Primary eye irritation – rabbit	45618607	Ciba Specialty Chemicals	Own	
OPPTS 870.2500	Primary dermal irritation	45618608	Ciba Specialty Chemicals	Own	
OPPTS 870.2600	Dermal sensitization	45618609	Ciba Specialty Chemicals	Own .	
GENERIC DATA - SILVER	•				
830.6302	Color .	NA	Per page 5 of Silver RED, TGAI		Agency phone
	<u> </u>		requirements are satisfied by MP data		call 4/22/03
830.6303	Physical state	NA	Per page 5 of Silver RED, TGAI		Agency phone
	<u> </u>		requirements are satisfied by MP data		call 4/22/03
830.6304	Odor	NA	Per page 5 of Silver RED, TGAI		Agency phone
			requirements are satisfied by MP data		call 4/22/03
830.6313	Stability	NA	Per page 5 of Silver RED, TGAI		Agency phone
			requirements are satisfied by MP data		call 4/22/03
830.7000	PH	NA	Per page 5 of Silver RED, TGAI		Agency phone
			requirements are satisfied by MP data		call 4/22/03
830.7200	Melting point	NA	Per page 5 of Silver RED, TGAI		Agency phone
			requirements are satisfied by MP data		call 4/22/03
830.7220	Boiling point	NA	Per page 5 of Silver RED, TGAI		Agency phone
			requirements are satisfied by MP data		call 4/22/03
830.7300	Density/relative density/bulk density	NA	Per page 5 of Silver RED, TGAI		Agency phone
			requirements are satisfied by MP data		call 4/22/03

Signature	Name and Title	Date-
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	DATA MATR	IX .	
Date: April 22, 2003		EPA Reg No./ File Symbol 40810-EU	Page 4 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7370	Dissociation constant	NA	Per page 5 of Silver RED, TGAI		Agency phone
	•		requirements are satisfied by MP data		call 4/22/03
830.7840-7860	Solubility	NA	Per page 5 of Silver RED, TGAI		Agencyphone
			requirements are satisfied by MP data		call 4/22/03
830.7950	Vapor pressure	NA	Per page 5 of Silver RED, TGAI		Agency phone
			requirements are satisfied by MP data		call 4/22/03
870.1100	Acute oral toxicity – rat	42032702,	Kanebo	Per	Footnote 10
		42664501			
870.1200	Acute dermal toxicity – rat	42032702,	Kanebo	Per	Footnote 10
		42664501			
870.1300	Acute inhalation toxicity	42032702,	Kanebo	Per	Footnote 10
		42664501	•		
870.2400	Primary eye irritation – rabbit	42032702,	Kanebo	Per	Footnote 10
		42664501			
870.2500	Primary dermal irritation	42032702,	Kanebo	Per	Footnote 10
		42664501	,		
870.2600	Dermal sensitization	42032702,	Kanebo	Per	Footnote 10
		42664501			
870.3250	90 day oral toxicity – rodent	RED Ref		Pub	Footnote 1
870.3700	Developmental toxicity – rodent	RED Ref	•	Pub	Footnote 2
870.5265	In vitro mutagenicity	RED Ref	,	Pub	Footnote 3
870.5300	Mutagenicity - mammalian cells in culture	RED Ref		Pub	Footnote 3
870.5380	In vivo cytogenetics_	RED Ref		Pub	Footnote 3
850.1010	Daphnia acute toxicity	42650501	Mason Chemical	Pay	
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DATA MATRIX					
Date: April 22, 2003 EPA Reg No./ File Symbol 40810-EU Page 5 of 9					
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000			
Ingredient: silver (PC 72501) and zinc (PC 1290	15)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1075	Acute toxicity – fish	42650501	Mason Chemical	pay	-
850.2100	Avian Acute toxicity	43312901	Mason Chemical	Pay	
835.2120	Hydrolysis	RED Ref		Pub	Footnote 4
GENERIC DATA – ZINC Per EPA letter of 4/17/03,				,	
reference zinc oxide	·				
830.6302	Color	41777903	Monsanto	Pay	Footnote 11
830.6303	Physical state	41777903	Monsanto	Pay	Footnote 11
830.6304	Odor	41777903	Monsanto	Pay	Footnote 11
830.6313	Stability	41777903	Monsanto	Pay	Footnote 11
830.7000	pH	41777903	Monsanto	Pay	Footnote 11
830.7200	Melting point	41777903	Monsanto	Pay	Footnote 11
830.7220	Boiling point	41777903	Monsanto	Pay	Footnote 11
830.7300	Density/relative density/bulk density	41777903	Monsanto	Pay	Footnote 11
830.7370	Dissociation constant	41777903	Monsanto	Pay	Footnote 11
830.7840-7860	Solubility	41777903	Monsanto	Pay	Footnote 11
830.7950	Vapor pressure	41777903	Monsanto	Pay	Footnote 11
870.1100	Acute oral toxicity – rat	147624	Monsanto	Old	Footnote 11
870.1200	Acute dermal toxicity – rat	147625	Monsanto	Old	Footnote 11
870.1300	Acute inhalation toxicity	43258601	Monsanto	Pay	Footnote 11
870.2400	Primary eye irritation – rabbit	147627	Monsanto	Old	Footnote 11
870.2500	Primary dermal irritation	147626	Monsanto	Old	Footnote 11

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DATA MATRIX				
Date: April 22, 2003		EPA Reg No./ File Symbol 40810-EU	Page 6 of 9	
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000		
Ingredient: silver (PC 72501) and zinc (PC 1290				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2600	Dermal sensitization	43258602	Monsanto	pay	Footnote 11
870.3250	90 day dermal toxicity - rodent	RED Ref		Pub	Footnote 5, 9
870.3700	Developmental toxicity – rodent	RED Ref	-	Pub	Footnote 7, 9
870.5265	In vitro mutagenicity	RED Ref		Pub	Footnote 7, 9
870.5300	Mutagenicity – mammalian cells in culture	RED Ref		Pub	Footnote 7, 9
870.5380	In vivo cytogenetics	RED Ref		pub	Footnote 7, 9
850.1010	Daphnia acute toxicity	155227	Monsanto	old	
850.1075	Acute toxicity fish	155224	Monsanto	old	
		155228			
850.2100	Avian Acute toxicity	155226	Monsanto	old	
835.2120	Hydrolysis	RED Ref		pub	Footnote 8, 9

Footnote 1: Published literature references cited in Silver RED (US EPA 1993):

- Wagner, P.A., Hoekstro, W. and Ganther, H.E. 1975. Alleviation of silver toxicity by selenite in the rat in relation to tissue glutathione peroxidase. Proc. Soc. Exp. Biol. Med. 148:1106-1420
- Van Vleet, J.F. 1976. Induction of lesions of Selenium-vitamin E deficiency in pigs fed silver. Am. J. Vet. Res. 37:1425-1420
- Day, W.A., Hunt, J.S. and McGiven, A.R. 1976. Silver deposition in mouse glomeruli. Pathology 8:201-204
- Walker, F. 1971. Experimental Argyria: A model for basement membrane studies. Brit. J. Exp. Path. 52:589-593
- Olcott, C.T. 1947. Experimental argyrosis. III. Pigmentation of the eyes of rats following ingestion of silver during long periods of time. Am. J. Path. 23:783-789.
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- Olcott, C.T. 1950. Experimental argyrosis. V. Hypertrophy of the left ventricle of the heart in rats ingesting silver salts. Arch. Path. 49: 138-149.
- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Goyer, R.A. 1991. Toxic effects of metals. Casserett and Doull's Toxicology. Eds. M. Amdur, J. Doull, and C. Klaassen. Pergamon Press. 623-280.

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DATA MATRIX			
Date: April 22, 2003		EPA Reg No./ File Symbol 40810-EU	Page 7 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	
Ingredient: silver (PC 72501) and zinc (PC 1290	15)		

 Gaul, L.E., and Staud, A.H. 1935. Clinical Spectroscopy. Seventy cases of generalized argyrosis following organic and colloidal silver medication, including a biospectrometric analysis of ten cases. J. Am. Med. Assoc. 104:1387-1390

Footnote 2: Published literature references cited in Silver RED (US EPA 1993):

- Rungby, J, Slomianka, L., Dansker, G., Anderson, A.H., and West, M.J. 1987. A quantitative evaluation of the neurotoxic effect of silver on the volumes of the components of the developing rat hippocanipus. Toxicol. 43:261-268
- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24

Footnote 3: Published literature references cited in Silver RED (US EPA 1993):

- Demerec, M., Bertani, G., and Fling, J. 1951. A survey of chemicals for mutagenic action on E. Coli. Am. Nat. 85:119-136.
- Nishioka, H. 1975. Mutagenic activity of metal compounds in bacteria. Mutat. Res 31: 185-189.
- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Rossman, T.G., and Molina, M. 1986. The genetic toxicology of metal compounds: II. Enhancement of ultraviolet light-induced mutagenesis in Escherichia coli WP2. Environ. Mutagen 8:263-271.

Footnote 4: Published literature references cited in Silver RED (US EPA 1993):

- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Buffle, J. Complexation Reactions in aquatic chemistry: An analytical approach. 1990. Ellis Horwood, NY
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- Pourbaix, M. Atlas of electrochemical equilibria in aqueous solutions, 1974. Translated by J.A. Franklin, National Association of Corrosion Engineers, Houston, TX
- Reese, R.J. "Silver", Mminerals Facts and Problems. U.S. Department of the Interior, Bureau of Mines; Bulletin 675, 1985 Edition, U.S. Printing Office, Washington DC

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poration Product: Irgaguard® B7000	
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- Stumm, W. Chemistry of the solid-water interface: processes at the mineral-water and particle-water interface in natural systems, 1992. John Wiley and Sons, NY
- Thompson, N.R. "Silver" Comprehensive Inorganic Chemistry. J.C. Bailar, Ed., 1973, Pergamon Press, UK
- Zhutaeva, G.V., and Shumilova, N.A. "Silver", in Standard Potentials in Aqueous Solution, A.J. Bard, R. Parsons, and J. Jordan Ed. Prepared under the auspices of IUPAC, Physical and Analytical Chemistry Divisions, Commissions on Electrochemistry and Electroanalytical Chemistry. 1985. Marcel Dekker, NY.
- Footnote 5: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21
- Footnote 6: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
  - FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21
- Footnote 7: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - Sax, N. and Lweis, R. 1989. Dangerous Properties of Industrial Materials. 7th Ed. Van Nostrand Reinhold, NY
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
- Footnote 8: Published literature references cited in Zinc Salts RED (US EPA 1992):
  - RED pages 6, 11
  - NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
- Footnote 9: Published literature references:
  - U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1994. Toxicology Profile for Zinc.
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- Footnote 10: Per Agency agreement on 4/22/03, TGAI requirements are fulfilled by Bactekiller A, 3.5% silver in zèolite, EPA Reg. No. 59824-3.
- Footnote 11: Cited data are from EPA Reg. No. 524-354 (registration transferred to 71645-3), a 99.4% zinc oxide product and are cited in the RED or fulfilled RED DCl requirements.

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Date: April 22, 2003		EPA Reg No./ File Symbol 40810-EU	Page 9 of 9
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000	

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#### DATA MATRIX

Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU	Page 1 of 6
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005	Product: Irgaguard® B7000 Manufacturing Use	
Ingredient: silver (PC 72501) and zinc (PC 1290	Tarrytown, NY 10591-9005		· · · · · · · · · · · · · · · · · · ·

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA					
OPPTS 830.1550	Product Identity and Composition	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1600	Description of Starting Materials	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1650	Description of the Formulation Process	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1670	Discussion of the Formation of Impurities	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1750	Certified Limits	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.1800	Enforcement analytical method	45725101	Ciba Specialty Chemicals	Own	
OPPTS 830.6303	Physical state	45725102	Ciba Specialty Chemicals	Own	•
OPPTS 830.7000	pH	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6320	Corrosion characteristics	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6302	Color .	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6304	Odor	45725102	Ciba Specialty Chemicals	Own	
OPPTS 830.6315	Flammability	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6316	Explodability	45618303	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 830.6319 • • • •	Miscibility	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.7100 •••	Viscosity	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.7300	Density	45725102	Ciba Specialty Chemicals	Own	
OPPTS 870.1100	Acute oral toxicity – rat	45618304	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.1200	Acute dermal toxicity – rat	45618305	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870 1300	Acute inhalation toxicity	45618306	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870,2400	Primary eye irritation – rabbit	45618307	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.2500	Primary dermal irritation	45618308	Ciba Specialty Chemicals	Own	See footnote 2

Signature
Name and Title
Thomas Barber
Oct 22, 2002
Manager Product Compliance



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# Date: October 22, 2002 EPA Reg No./ File Symbol 40810-EU Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.2600	Dermal sensitization	45618309	Ciba Specialty Chemicals	Own	See footnote 2
GENERIC DATA - SILVER					
OPPTS 830.1550	Product Identity and Composition	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1600	Description of Starting Materials	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1620	Description of the Manufacturing Process	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1670	Discussion of the Formation of Impurities	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1700	Preliminary Analysis	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1750	Certified Limits	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1800	Enforcement analytical method	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6303	Physical state	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.7000	pH	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6320	Corrosion characteristics	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6302	Color	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6304	Odor	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6315	• Flammability	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6316	Explodability	45618603	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6319.	• Miscibility	Waiver-	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.7100	Viscosity	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830,7300	Density	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.1 100	Acute oral toxicity – rat	45618604	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870-1200	Acute dormal toxicity – rat	45618605	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.1300	Acute inhalation toxicity	45618606	Ciba Specialty Chemicals	Own	40180-EG
Signature			Name and Title		Date

Signature

Name and Title Thomas Barber Manager Product Compliance Oct 22, 2002



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.2400	Primary eye irritation – rabbit .	45618607	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.2500	Primary dermal irritation	45618608	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.2600	Dermal sensitization	45618609	Ciba Specialty Chemicals	Own	40180-EG
870.1100	Acute oral toxicity – rat	Waived	Per RED	RED -	<u> </u>
870.1200	Acute dermal toxicity – rat	Waived	Per RED	RED	
870.1300	Acute inhalation toxicity	Waived	Per RED	RED	
870.2400	Primary eye irritation – rabbit	Waived	Per RED	RED	
870.2500	Primary dermal irritation	Waived	Per RED	RED	
870.2600	Dermal sensitization	Waived	Per RED	RED	
870.3250	90 day dermal toxicity – rodent	41615807	Kanebo	Per	
870.3700	Developmental toxicity – rodent	41638502,	Kanebo	Per	
		42245403,	·		
		42653201,			
· · · · · · · · · · · · · · · · · · ·		42845701			
870.5265	In vitro mutagenicity	42032803	Kanebo	Per	1
870.5300	Mutagenicity - mammalian cells in culture	42032804	Kanebo	Per	
870.5380	In vivo cytogenetics	. 42820101	Kanebo	Per	
850.1010	Daphnia acute toxicity	42032805,	Kanebo	Per	1
	·	42032703	1		
850.1075	Acute toxicity – fish	41615813,	Kanebo	Per	
		41615814		v	
		42032703		_	<u> </u>
850.2100	Avian Acute toxicity	42870901,	Kanebo	Per	
		42871001			
Signature			Name and Title		Date
			Thomas Barber		Oct 22, 2002
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2120	Hydrolysis	42032806	Kanebo	Per	
GENERIC DATA - ZINC					
OPPTS 830.1550	Product Identity and Composition	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1600	Description of Starting Materials	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1620	Description of the Manufacturing Process	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1670	Discussion of the Formation of Impurities	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1700	Preliminary Analysis	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1750	Certified Limits	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.1800	Enforcement analytical method	45724701	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6303	Physical state	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.7000	рH	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6320	Corrosion characteristics	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6302	Color	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6304	Odor	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6315	Flaminability	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6316	Explodability	45618603	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.6319	Miscibility	Waiver	Ciba Specialty Chemicals	- Own	40180-EG
OPPTS 830.7100	Viscosity	Waiver	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 830.7300	Density	45724702	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.1100	Acute oral toxicity – rat	45618604	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.1200	Acute dermal toxicity – rat	45618605	Ciba Specialty Chemicals	Own	40180-EG

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DATA MATRIX						
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU		Page 5 of 6		
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manuf	acturing Use			

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.1300	Acute inhalation toxicity	45618606	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.2400	Primary eye irritation – rabbit	45618607	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.2500	Primary dermal irritation	45618608	Ciba Specialty Chemicals	Own	40180-EG
OPPTS 870.2600	Dermal sensitization	45618609	Ciba Specialty Chemicals	Own	40180-EG
870.1100	Acute oral toxicity - rat	Waived	Per RED	RED	
870.1200	Acute dermal toxicity – rat	Waived	Per RED	RED	•
870.1300	Acute inhalation toxicity	Waived	Per RED	RED	
870.2400	Primary eye irritation – rabbit	Waived	Per RED	RED	`
870.2500	Primary dermal irritation	Waived	Per RED	RED	
870.2600	Dermal sensitization	Waived	Per RED	RED	
870.3250	90 day dermal toxicity – rodent	Waived	Per RED	RED	•
870.3700	Developmental toxicity – rodent	Waived	Per RED	RED	
870.5265	In vitro mutagenicity	Waived	Per RED	RED	
870.5300	Mutagenicity – mammalian cells in culture	Waived	Per RED	RED	
870.5380	In vivo cytogenetics	Waived	Per RED	RED	
850.1010	Daphnia acute toxicity	42032806	Kanebo	Per	Waived for
		155227	Monsanto	old ·	most zinc salts
					in RED
850.1075	Acute toxicity – fish	155224	Monsanto	old	Waived for
		155228			most zinc salts
					in RED
850.2100	Avian Acute toxicity	42870901	Kanebo	Per	Waived for
		155226	Monsanto	old	most zinc salts in RED
Signature			Name and Title		Date
			Thomas Barber	*	Oct 22, 2002
1/6/	•		Manager Product Compliance		
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•	DATA MATR	IX	
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU	Page 6 of 6
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manufacturing Use	
Ingredient: silver (PC 72501) and zinc (PC 1290	015)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2120	Hydrolysis	Waived	Per RED	RED	

Footnote 1: Request for Waivers submitted for these tests. Footnote 2: See request for waivers for explanation/justification.

Signature	Name and Title	Date
The	Thomas Barber Manager Product Compliance	Oct 22, 2002



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DATA MATRIX					
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU	Page 1 of 6		
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manufacturing Use			
Ingredient: silver (PC 72501) and zinc (PC 1290	115)				

Guideline Reference Number Guideline Study Name	MRID Number	Submitter	Status	Note
		Ciba Specialty Chemicals	Own	
		Ciba Specialty Chemicals	Own	
		Ciba Specialty Chemicals	Own	
		Ciba Specialty Chemicals	Own	
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		Ciba Specialty Chemicals	Own	
		Ciba Specialty Chemicals	Own	
		Ciba Specialty Chemicals	Own	See footnote 1
		Ciba Specialty Chemicals	Own	See footnote I
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		Ciba Specialty Chemicals	Own	See footnote 1
		Ciba Specialty Chemicals	Own	See footnote 2
		Ciba Specialty Chemicals	Own	See footnote 1
		Ciba Specialty Chemicals	Own	See footnote 1
		Ciba Specialty Chemicals	Own	
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		Ciba Specialty Chemicals	Own	See footnote 2
		Ciba Specialty Chemicals	Own	See footnote 2
		Ciba Specialty Chemicals	Own	See footnote 2
		Ciba Specialty Chemicals	Own	See footnote 2

Signature
Name and Title
Thomas Barber
Manager Product Compliance

Date
Oct 22, 2002



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DATA MATRIX					
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU	Page 2 of 6		
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manufacturing Use			

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Ciba Specialty Chemicals	Own	See footnote 2
in March			Ciba Specialty Chemicals	Own	40180-EG
			Ciba Specialty Chemicals	Own	40180-EG
			Ciba Specialty Chemicals	Own	40180-EG
			Ciba Specialty Chemicals	Own	40180-EG
			Ciba Specialty Chemicals	Own	40180-EG
A 0.88 0.54			Ciba Specialty Chemicals	Own	40180-EG
			Ciba Specialty Chemicals `	Own	40180-EG
			Ciba Specialty Chemicals	Own	40180-EG
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	e_ · · ·		Ciba Specialty Chemicals	Own	40180-EG
Signature			Name and Title		Date
			Thomas Barber		Oct 22, 2002
The			Manager Product Compliance		300 ==, = 002
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DATA MATRIX					
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU	Page 3 of 6		
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manufacturing Use			
Ingredient: silver (PC 72501) and zinc (PC 1290					

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	:		Ciba Specialty Chemicals	Own	40180-EG
			Ciba Specialty Chemicals	Own	40180-EG
			Ciba Specialty Chemicals	Own '	40180-EG
			Per RED	RED	
			Per RED	RED	
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Signature			Name and Title		Date
			Thomas Barber		Oct 22, 2002
760			Manager Product Compliance		
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DATA MATRIX				
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU	Page 4 of 6	
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manufacturing Use		

Guideline Reference Number Guideline Study Name	MRID Number	Submitter	Status	Note
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		Cita Specialty Chamicals	Own	40180-EG
		Ciba Specialty Chemicals		
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		Ciba Specialty Chemicals	Own	40180-EG

Signature	Name and Title	Date
	Thomas Barber	Oct 22, 2002
760	Manager Product Compliance	,



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## Date: October 22, 2002 Date: October 22, 2002 Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005

S40 White Plains Road
PO Box 2005
Tarrytown, NY 10591-9005

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number
Guideline Study Name
MRID Number
Submitter
Status
Note
Ciba Specialty Chemicals
Own 40180-EG

	Ciba Specialty Chemicals	Own	40180-EG
	Ciba Specialty Chemicals	Own	40180-EG
	Ciba Specialty Chemicals	Own	40180-EG
	Ciba Specialty Chemicals	Own	40180-EG
	Per RED	RED	
	Kanebo	Per	Waived for
	Monsanto	old	most zinc salts
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			most zinc salts
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	Kanebo	Per	Waived for
	Monsanto	old	most zinc salts
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	Thomas Barber		Oct 22, 2002
166	Manager Product Compliance		
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DATA MATRIX			
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EU	Page 6 of 6
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manufacturing Use	
Ingredient: silver (PC 72501) and zinc (PC 1290			

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Per RED	RED	

Footnote 1: Request for Waivers submitted for these tests. Footnote 2: See request for waivers for explanation/justification.

Signature

The Management

Name and Title Thomas Barber Manager Product Compliance

Date Oct 22, 2002



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# Date: October 22, 2002 EPA Reg No./ File Symbol 40810-EG Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA		-			
OPPTS 830.1550	Product Identity and Composition	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1600	Description of Starting Materials	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1620	Description of the Manufacturing Process	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1670	Discussion of the Formation of Impurities	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1700	Preliminary Analysis	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1750	Certified Limits	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.1800	Enforcement analytical method	45724701	Ciba Specialty Chemicals	Own	
OPPTS 830.6303	Physical state	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.7000	pH	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6320	Corrosion characteristics	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6302	Color	45724702	Ciba Specialty Chemicals	Own	١
OPPTS 830.6304	Odor	45724702	Ciba Specialty Chemicals	Own	
OPPTS 830.6315	Flammability	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6316	Explodability	45618603	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 830.6319	Miscibility	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.7100	Viscosity	Waiver	Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.7300	Density	45724702	Ciba Specialty Chemicals	Own	
OPPTS 870.1100	Acute oral toxicity – rat	45618604	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.1200	Acute dermal toxicity – rat	45618605	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.1300	Acute inhalation toxicity	45618606	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.2400	Primary eye irritation – rabbit	45618607	Ciba Specialty Chemicals	Own	See footnote 2

Signature	Name and Title	Date
	Thomas Barber	October 22,
The	Manager Product Compliance	2002



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#### DATA MATRIX

Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EG	Page 2 of 4
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005	Product: Irgaguard® B102 N Manufacturing Use	
<u></u>	Tarrytown, NY 10591-9005	·	
Ingredient: silver (PC 72501) and zinc (PC 1290	015)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
OPPTS 870.2500	Primary dermal irritation	45618608	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.2600	Dermal sensitization	45618609	Ciba Specialty Chemicals	Own	See footnote 2
GENERIC DATA - SILVER					
870.1100	Acute oral toxicity – rat	Waived	Per RED	RED	
870.1200	Acute dermal toxicity – rat	Waived	Per RED	RED	
870.1300	Acute inhalation toxicity	Waived	Per RED	RED	
870.2400	Primary eye irritation – rabbit	Waived	Per RED	RED	
870.2500	Primary dermal irritation	Waived	Per RED	RED	
870.2600	Dermal sensitization	Waived	Per RED	RED	
870.3250	90 day dermal toxicity – rodent	41615807	Kanebo	Per	
870.3700	Developmental toxicity - rodent	41638502,	Kanebo	Per	
	,	42245403,			
		42653201,		1	
		42845701			
870.5265	In vitro mutagenicity	42032803	Kanebo	Per	
870.5300	Mutagenicity – mammalian cells in culture	42032804	Kanebo	Per	
870.5380	In vivo cytogenetics	42820101	Kanebo	Per	·
850.1010	Daphnia acute toxicity	42032805,	Kanebo	Per	
		42032703			,
850.1075	Acute toxicity – fish	41615813,	Kanebo	Per	
		41615814	· ·		
		42032703			•

Signature	Name and Title	Date
	Thomas Barber	October 22,
17 L	Manager Product Compliance	2002
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Guideline Reference Number

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#### DATA MATRIX

Date: October 22, 2002		EPA Reg No./ File Symbol	Page 3 of 4
		40810-EG	·
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation	Product: Irgaguard® B102 N Manufacturing Use	
	540 White Plains Road	· ·	
	PO Box 2005		
	Tarrytown, NY 10591-9005		
Ingredient: silver (PC 72501) and zinc (PC 1290	15)		

MRID Number

Waived

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Submitter

Per RED

Per RED

Per RED

Kanebo

Monsanto

Monsanto

Per 42870901. Kanebo 850.2100 Avian Acute toxicity 42871001 Per Hydrolysis 42032806 835.2120 Kanebo GENERIC DATA - ZINC RED Acute oral toxicity - rat Waived Per RED 870.1100 **RED** Waived Per RED 870.1200 Acute dermal toxicity - rat RED Waived Per RED 870.1300 Acute inhalation toxicity RED 870.2400 Primary eye irritation - rabbit Waived Per RED 870.2500 Primary dermal irritation RED Waived Per RED 870.2600 **RED** Waived Per RED Dermal sensitization RED 870.3250 90 day dermal toxicity - rodent Waived Per RED RED 870.3700 Developmental toxicity - rodent Waived Per RED

Signature Name and		
Signature Name and	d Title	Date
Thomas B	Barber	October 22,
Manager F	Product Compliance	2002

Guideline Study Name

In vitro mutagenicity

In vivo cytogenetics

Acute toxicity - fish

Daphnia acute toxicity

Mutagenicity – mammalian cells in culture

Waived for

Waived for

in RED

most zinc salts

most zinc salts in RED



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## Date: October 22, 2002 Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015) EPA Reg No./ File Symbol 40810-EG Product: Irgaguard® B102 N Manufacturing Use

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2100	Avian Acute toxicity	42870901 155226	Kanebo Monsanto	Per old	Waived for most zinc salts in RED
835.2120	Hydrolysis	Waived	Per RED	RED	

Footnote 1: Request for Waivers submitted for these tests. Footnote 2: See Request for Waivers for explanation/justification.

Signature	Name and Title	Date
The	Thomas Barber Manager Product Compliance	October 22, 2002



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Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EG	Page 1 of 4
540 Wh PO Box	ecialty Chemicals Corporation hite Plains Road 2005 wn, NY 10591-9005	Product: Irgaguard® B102 N Manufacturing Use	

Guideline Reference Number G	uideline Study Name	MRID Number	Submitter	Status	Note
			Ciba Specialty Chemicals	Own .	
			Ciba Specialty Chemicals	Own	
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			Ciba Specialty Chemicals	Own	See footnote 1
			Ciba Specialty Chemicals	Own	See footnote 1
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	See footnote 1
			Ciba Specialty Chemicals	Own	See footnote 2
			Ciba Specialty Chemicals	Own	See footnote 1
			Ciba Specialty Chemicals	Own	See footnote 1
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	See footnote 2
			Ciba Specialty Chemicals	Own	See footnote 2
			Ciba Specialty Chemicals	Own	See footnote 2
			Ciba Specialty Chemicals	Own	See footnote 2

Signature
Name and Title
Thomas Barber
Manager Product Compliance

Date
October 22,
2002



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	DATA MATRIX					
Date: October 22, 2002		EPA Reg No./ File Symbol 40810-EG	Page 2 of 4			
540 PO	a Specialty Chemicals Corporation White Plains Road Box 2005 rytown, NY 10591-9005	Product: Irgaguard® B102 N Manufacturing Use				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	<u> </u>		Ciba Specialty Chemicals	Own	See footnote 2
			Ciba Specialty Chemicals	Own	See footnote 2
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Signature	Name and Title	Date
	Thomas Barber	October 22,
The	Manager Product Compliance	2002



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DATA MATRIX				
	EPA Reg No./ File Symbol 40810-EG	Page 3 of 4		
Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B102 N Manufacturing Use			
	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005	EPA Reg No./ File Symbol 40810-EG  Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005  EPA Reg No./ File Symbol 40810-EG  Product: Irgaguard® B102 N Manufacturing Use		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Kanebo	Per	
			Kanebo	Per	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	·
			Per RED	RED	
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			Kanebo	Per	Waived for
			Monsanto	old	most zinc salts
				•	in RED
			Monsanto	old	Waived for
			·		most zinc salts
and The State of t	4- X 3				in RED

Signature	Name and Title	Date
The	Thomas Barber Manager Product Compliance	October 22, 2002



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Applicant's/Registrant's Name and Address:  Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005  Ciba Specialty Chemicals Corporation Froduct: Irgaguard® B102 N Manufacturing Use	,	DATA MATR	IX	
540 White Plains Road PO Box 2005	Date: October 22, 2002		,	Page 4.of 4
Tarrytown, NY 10591-9005	Applicant's/Registrant's Name and Address:	540 White Plains Road	Product: Irgaguard® B102 N Manufacturing Use	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Kanebo Monsanto	Per old	Waived for most zinc salts in RED
			Per RED	RED	

Footnote 1: Request for Waivers submitted for these tests. Footnote 2: See Request for Waivers for explanation/justification.

Signature	Name and Title	Date
	Thomas Barber	October 22,
The	Manager Product Compliance	2002

Agency Internal Use



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# Date: Date: EPA Reg No./ File Symbol 40810 Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015)

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA					
OPPTS 830.1550	Product Identity and Composition		Ciba Specialty Chemicals	Own	
OPPTS 830.1600	Description of Starting Materials		Ciba Specialty Chemicals	Own	
OPPTS 830.1650	Description of the Formulation Process		Ciba Specialty Chemicals	Own	
OPPTS 830.1670	Discussion of the Formation of Impurities		Ciba Specialty Chemicals	Own	
OPPTS 830.1750	Certified Limits		Ciba Specialty Chemicals	Own	
OPPTS 830.1800	Enforcement analytical method		Ciba Specialty Chemicals	Own	
OPPTS 830.6303	Physical state		Ciba Specialty Chemicals	Own	
OPPTS 830.7000	pH		Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6314	Oxidation/reduction: chemical incompatibility		Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6320	Corrosion characteristics		Ciba Specialty Chemicals	Own	
OPPTS 830.6302	Color		Ciba Specialty Chemicals	Own	
OPPTS 830.6304	Odor		Ciba Specialty Chemicals	Own	
OPPTS 830.6315	Flammability		Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.6316	Explodability	45618303	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 830.6319	Mischiglity		Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.7100			Ciba Specialty Chemicals	Own	See footnote 1
OPPTS 830.7300	Density		Ciba Specialty Chemicals	Own	
OPPTS 870.1100	Acute oral toxicity - rat	45618304	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.1200	Acute dermal toxicity - rat	45618305	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.1200 OPPTS 870.1300	Acute inhalation foxicity	45618306	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.2400 · · ·	Primary eye irritation - rabbit	45618307	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.2500	Primary dermal irritation	45618308	Ciba Specialty Chemicals	Own	See footnote 2
OPPTS 870.2600	Dermal sensitization	45618309	Ciba Specialty Chemicals	Own	See footnote 2
Signature			Name and Title		Date

Thomas Barber

Manager Product Compliance



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## Date: Date: EPA Reg No./ File Symbol 40810 Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Page 2 of 3 Product: Irgaguard® B7000 Manufacturing Use

Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
GENERIC DATA - SILVER					
870.1100	Acute oral toxicity – rat	Waived	Per RED	RED	
870.1200	Acute dermal toxicity – rat	Waived	Per RED	RED	
870.1300	Acute inhalation toxicity	Waived	Per RED	RED	
870.2400	Primary eye irritation – rabbit	Waived	Per RED	RED	
870.2500	Primary dermal irritation	Waived	Per RED	RED	
870.2600	Dermal sensitization	Waived	Per RED	RED	
870.3250	90 day dermal toxicity – rodent	41615807	Kanebo	Per	
870.3700	Developmental toxicity – rodent	41638502, 42245403, 42653201, 42845701	Kanebo	Per	
870.5265	In vitro mutagenicity	42032803	Kanebo	Per	
870.5300	Mutagenicity – mammalian cells in culture	42032804	Kanebo	Per	
870.5380	In vivo cytogenetics	42820101	Kanebo	Per	
850.1010	Daphnia acute toxicity	42032805, 42032703	Kanebo	Per	
850.1075	Acute toxicity – fish	41615813, 41615814 42032703	Kanebo	Per	
850.2100	Avian Acute toxicity	42870901, 42871001	Kanebo	Per	
835.2120	Hydrolysis	42032806	Kanebo	Per	

Signature	Name and Title	Date
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	Manager Product Compliance	5/3/02



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#### **DATA MATRIX** EPA Reg No./ File Symbol Page 3 of 3 Date: 40810-Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation Product: Irgaguard® B7000 Manufacturing Use 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
GENERIC DATA - ZINC					
870.1100	Acute oral toxicity – rat	Waived	Per RED	RED	
870.1200	Acute dermal toxicity - rat	Waived	Per RED	RED	
870.1300	Acute inhalation toxicity	Waived	Per RED	RED	
870.2400	Primary eye irritation – rabbit	Waived	Per RED	RED	
870.2500	Primary dermal irritation	Waived	Per RED	RED	
870.2600	Dermal sensitization	Waived	Per RED	RED	
870.3250	90 day dermal toxicity - rodent	Waived	Per RED	RED	
870.3700	Developmental toxicity - rodent	Waived	Per RED	RED	
870.5265	In vitro mutagenicity	Waived	Per RED	RED	
870.5300	Mutagenicity - mammalian cells in culture	Waived	Per RED	RED	
870.5380	In vivo cytogenetics	Waived	Per RED	RED	
850.1010	Daphnia acute toxicity	42032806 155227	Kanebo Monsanto	Per old	Waived for most zinc salts in RED
850.1075	Acute toxicity – fish	155224 155228	Monsanto	old	Waived for most zinc salts in RED
850.2100	Avian Acute toxicity	42870901 155226	Kanebo Monsanto	Per old	Waived for most zinc salts in RED
835.2120	Hydrolysis	Waived	Per RED	RED	

Footnote 1: Request for Waivers submitted for these tests. Footnote 2: See request for waivers for explanation/justification.

Signature	Name and Title	Date
n n	Thomas Barber	12/2
	Manager Product Compliance	3/8/06

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Date:		EPA Reg No./ File Symbol 40810-	Page 1 of 3
Applicant's/Registrant's Name and Address:	Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005	Product: Irgaguard® B7000 Manufacturing Use	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA					
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	
			Ciba Specialty Chemicals	Own	
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			Ciba Specialty Chemicals	Own	See footnote
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# Date: Date: EPA Reg No./ File Symbol 40810 Applicant's/Registrant's Name and Address: Ciba Specialty Chemicals Corporation 540 White Plains Road PO Box 2005 Tarrytown, NY 10591-9005 Ingredient: silver (PC 72501) and zinc (PC 129015) EPA Reg No./ File Symbol 40810 Product: Irgaguard® B7000 Manufacturing Use

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
SENERIC DATA - SILVER					
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Kanebo	Per	
			Kanebo	Per	
			Kanebo	Per	
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Signature	Name and Title	Date
1 1 1/ 1/	Thomas Barber Manager Product Compliance	5/3/02



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
GENERIC DATA - ZINC					
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Per RED	RED	
			Kanebo	Per	Waived for
	: : **:		Monsanto	old	most zinc salts
			Monsanto	old	Waived for most zinc salts in RED
			Kanebo	Per	Waived for
			Monsanto	old	most zinc salts in RED
			Per RED	RED	

Footnote 1: Request for Waivers submitted for these tests. Footnote 2: See Request for Waivers for explanation/justification.

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Signature	Name and Title	Date

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